Monitor Quality Control Solutions

RadiCS® & RadiNET® Pro

extracting the essence.

EIZO®

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Controlling the Quality of Monitors

Q1: Do all monitors have the same quality?
A1: No, monitor quality is determined by brightness, grayscale and brightness uniformity characteristics which vary by monitor. Moreover, they change slowly over time.

Q2: What happens if the monitor quality differs or changes?
A2: In a hospital where the images are displayed on different monitors for diagnosis or for past and present image comparison, differences or changes in monitor quality may lead to deterioration in the quality of medical care itself.

Q3: What can be done to maintain monitor quality?
A3: Monitor quality control (QC) is required to detect the characteristic difference or the gradual changes and to take suitable steps for maintenance.

Q4: What's required to start utilizing monitor QC?
A4: Software that can detect changes in monitor characteristics and perform the appropriate calibration when necessary.

Q5: Are there any standards for monitor QC?
A5: Yes, standards for monitor QC have been provided by organizations worldwide such as AAPM, DIN, JIRA, and IEC.

Managing the quality of monitors used every day leads to the improvement of the quality of medical care itself.

Detecting changes in a monitor’s display quality and making the proper adjustments.
Efficiently managing the huge quantity of monitors throughout the hospital.
With filmless imaging spreading in the medical world, there is a growing interest in maintaining the quality of monitors displaying medical images.
With the know-how and experience as a specialist in monitor manufacturing, we offer state-of-the-art solutions for the quality control of monitors which will lead to the improvement of the quality of medical care itself.

Optimum Image, Same Image.
Optimum Quality Control (QC) for Hospitals

QC for Individual Monitors:
Knowledge and experience is necessary to quality control each monitor, from checking to calibration, according to established guidelines. EIZO can offer you solutions to perform high-end quality control with user-friendly software and sensors.

QC Management for Large Amounts of Monitors:
Cost and labor is necessary to QC manage the large quantity of monitors throughout the hospital. EIZO can offer you solutions to perform efficient QC management using your intra-hospital network.

Client
Monitor Quality Control Software  RadiCS + UX1 Sensor

Administrator
Network QC Management Software  RadiNET Pro + Server

Useful Sensors:
Choice of sensors to lighten the workload of quality control management.

Built-In
Integrated Front Sensor
Integrated Front Sensor (IFS) housed within the front bezel does not interfere with the screen even during its use.

External
Presence Sensor
Presence sensor of the monitor or Clip-On Swing Sensor determines whether to start QC tasks automatically at scheduled times set by RadiCS. If the user is working, the QC task stays in stand-by mode, and when the user is away from the monitor the task is performed.

Smart QC Solutions

Without IFS

With IFS

Integrated Front Sensor for Easy QC Tasks
Without having to connect and disconnect, an IFS performs QC tasks such as testing and calibration and does not interfere with the screen.

Integrated Front Sensor for Intelligent QC
An IFS and RadiCS SelfQC function allows QC tasks to be performed by the monitor itself even when the connected workstation is switched off. This dramatically cuts monitor quality control workload and maintenance costs.

Presence Sensor for Smart QC Tasks
The presence sensor of the monitor or Clip-On Swing Sensor determines whether to start QC tasks automatically at scheduled times set by RadiCS. If the user is working, the QC task stays in stand-by mode, and when the user is away from the monitor the task is performed.
RadiCS provides total support for the quality maintenance and control of client monitors, covering everything from calibration to acceptance and constancy tests, calibration asset, and historical management. Complying with AAPM, DIN, IEC and other standards, RadiCS enables precise QC with easy-to-follow procedures.

**Features**

**Improved User-Interface and Enhanced Operability**
Graphical design and icons are arranged next to the text making it easy to comprehend the functions visually and intuitively. A compendium list also enables users to check the condition of monitors instantaneously. Furthermore, RadiCS simplifies operability such as gaining access to necessary information with just one click of a mouse.

**Acceptance and Constancy Testing in Easy Steps**
RadiCS enables you to perform brightness, grayscale and uniformity checks that comply with AAPM TG18, DIN V 6868-57, and other QC standards.

**Flexible Schedule Setting**
The timing of when to perform QC tasks such as daily tests or constancy tests can be set according to the needs of your institute. For example, when turning the PC on or just after a specific application is opened.

**Warning Icon for Swift QC**
A warning icon appears on the desktop taskbar when the monitor fails a QC check such as a constancy test. This enables prompt detection and correction of the monitor quality.

**DICOM Part 14 Calibration**
The built-in backlight sensor enables simplified calibration compliant with the DICOM Part 14 standard to correct the grayscale tones and brightness of the monitor. Furthermore, the use of an Integrated Front Sensor or bundled UX1 Sensor enables higher calibration performance.

**Backlight Meter**
The Backlight Meter function detects the condition of the monitor backlight by means of how well it is maintaining the factory-set brightness.

**Distinct QC for All Modes**
RadiForce monitors with a CAL Switch function have display modes for different types of images such as CR and endoscopy. RadiCS enables you to perform testing and calibration of each display mode.

**Continuous Asset Management**
Asset management numbers for monitors, PCs and graphics boards as well as installation location and medical institution names can be registered along with the monitor usage time. This supports continuous management of the IT properties within the facility.

**Intelligent Hands-Off Check**
Using a built-in backlight sensor, the hands-off check function determines whether the brightness of the monitor is within the appropriate range. This automatic brightness change detection reassures the continuous use of the monitor.

**DICOM Part 14 Calibration**
Using a built-in backlight sensor, the hands-off check function determines whether the brightness of the monitor is within the appropriate range. This automatic brightness change detection reassures the continuous use of the monitor.

**Historical Management and Report Generator**
Calibration, acceptance and constancy test results are stored as history. Using this history data, you can easily create reports compliant with QC guidelines.

**Low-Power-Consumption with Backlight Saver**
The Backlight Saver function turns off and on the monitor’s backlight in accordance with the activation of screen saver/desktop, or with the starting/closing of an application such as a DICOM viewer. This function helps to reduce power consumption and promotes the reliable and stable use of the monitor.

**Compatible with Non-RadiForce Monitors**
RadiCS enables you to perform acceptance and constancy test and calibration on non-RadiForce monitors such as EIZO FlexScan LCD monitors.

**Compatible with Both Windows and Mac OS**
RadiCS expands the realization of state-of-the-art checking and calibration of monitors connected to workstations running not just Windows but also with Macintosh OS. Mac OS X 10.7 (Lion) and OS 10.8 Mountain Lion will be supported with your upgrade order on the day of release.
RadiNET® Pro enables centralized management of all the client PC monitors with RadiCS software installed via an intra-hospital network. Up to 8,000 monochrome or color monitors connected to 1,000 client PCs covering everything from QC history reference to setting changes.

Centralized Management of up to 8,000 Monitors
RadiNET Pro enables centralized management of all the client PC monitors with RadiCS software installed via an intra-hospital network. Up to 8,000 monochrome or color monitors connected to 1,000 client PCs covering everything from QC history reference to setting changes.

Easy-to-Use Web-Based Application
This simple web-based application offers easy access to desired information. The administrator may conduct monitor QC operations from anywhere in the hospital smoothly and promptly. The user interface incorporates a tree view which makes it easy to visually capture the structure of all controlling monitors. It also supports various resolutions which increase the flexibility of the layout.

Instant Notification for Immediate Maintenance
When there is a change in the monitor's quality condition, it will show up on “Monitor Status” section. An alert message can also be sent automatically to the administrator's specified mail address to enable immediate maintenance.

Save Time with Remote Calibration
QC tasks such as testing and calibration using the Integrated Front Sensor or swing sensor can be performed remotely. This dramatically reduces the time and effort of the users and administrators required for calibration of the monitors.

One Time Remote Setting
Settings for monitor calibration, acceptance and constancy testing, scheduling and asset management can be performed remotely. Furthermore, setting for one monitor can also be transmitted to other monitors by remote control (identical models only).

Remote Upgrade of RadiCS Software
The bundled RadiCS Network Upgrade Software enables hospital-wide upgrading of all client PC RadiCS versions remotely and efficiently.

CSV File Output
You can output the monitor information and QC history data as Comma Separated Values (CSV) file format. This enables you to modify the data into various applications which can be used for administration surveys or reports.

Security Assurance
All the RadiNET Pro access information and client monitor setting history will be listed on a log window. This allows for the monitoring of non-authorized users as a security measure.

Compatible with Non-RadiForce Monitors
Unified management of non-RadiForce monitors such as EIZO FlexScan LCD monitors offers comprehensive QC management throughout the hospital.

RadiNET Pro
RadiNET Pro enables unified QC management of multiple monitors used in Picture, Archive and Communications Systems (PACS), Hospital Information Systems (HIS) and Radiology Information Management Systems (RIS) in a hospital. As well as reducing the workload of monitor administrators and maintenance service managers, this dramatically cuts monitor quality support and maintenance costs.

**Network QC Management Software**

**RadiNET Pro Starter Edition**

**RadiNET Pro**

For Small & Medium Sized Hospitals

For Large Sized Hospitals
RadiNET Pro Web Hosting

Network QC Management Server Providing

Instead of installing and setting up your own network QC management server in your hospital, EIZO will host the server for you. RadiNET Pro Web Hosting will free you from concern for initial investment and running cost. EIZO provides expert maintenance services for server operation which will give you reassurance you need for monitor QC.

Worry-Free Web Hosting

RadiNET Pro Web Hosting will free you from initial investment and running cost of the server. By utilizing gateway software, a secure Internet connection is offered at the entrance of the in-hospital network and external network.

Mobile Control Made Easy

Monitor administrators can access the QC server anytime, from any location where their web-enabled mobile device has Internet connectivity. This helps administration personnel to work remotely saving both the time and expense of on-site visits and improves the speed of the QC work flow. The interface is designed to easily navigate and perform operations with the touch of a finger via a web browser.

This feature is applicable to all the other RadiNET Pro softwares.

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| RadICs Version UP KIT | A software for major version up of RadiCS | | | | |

| RadICs Client License | A license to use RadiCS with other commercially available monitors | | | | |


Please check eizo.com website for compatibility.